

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method for extraction and concentration of a hydrophilic compound ~~compounds~~ dispersed or distributed in a hydrophobic liquid ~~matrices~~ matrix comprising ~~the following steps:~~
  - a) providing a sample of a hydrophobic liquid, which is a hydrophobic/non-polar/non-ionic liquid matrix;
  - b) adding to said sample an aqueous capture solution containing comprising at least one extractant ~~to said sample that is an amphoteric phospholipid, an anionic phospholipid or an anionic surfactant,~~ wherein said extractant improves the yield of the hydrophilic compound extracted from the hydrophobic matrix  
and  
a water-soluble dye in an amount to allow good visibility of the aqueous phase;
  - c) mixing said sample and said capture solution thoroughly;
  - d) ~~allow~~ allowing the ~~an~~ aqueous phase to separate from the sample phase;  
and
  - e) ~~measure~~ measuring the hydrophilic compound or biological material or particles in the aqueous phase.
2. (Withdrawn) An aqueous capture solution containing at least one extractant, said extractant in said capture solution improving the yield of a hydrophilic compound extracted from a hydrophobic matrix.
3. (Withdrawn) A capture solution according to claim 2, wherein said extractant is selected out of the group consisting of amphoteric or anionic phospholipids and anionic surfactants.

4. (Withdrawn) A capture solution according to claim 3, wherein said extractant is a lecithin.
5. (Withdrawn) A capture solution according to Claim 2, containing more than one extractant.
6. (Withdrawn) A capture solution according to Claim 2, containing a non-ionic surfactant in addition to the extractant(s).
7. (Withdrawn) A capture solution according to Claim 2 containing a water-soluble dye in an amount to allow good visibility of the aqueous phase.
8. (Withdrawn) A reagent kit for extracting a hydrophilic compound from a hydrophobic matrix and detection of said hydrophilic compound comprising a capture solution according to Claim 2.
9. (New) A method according to claim 1, wherein said extractant is a lecithin.
10. (New) A method according to Claim 1, wherein said aqueous capture solution contains more than one extractant.
11. (New) A method according to Claim 1, wherein said aqueous capture solution further comprises a non-ionic surfactant in addition to the extractant(s).
12. (New) A method according to claim 1, wherein said liquid matrix is crude oil, vegetable oil, petrol or kerosene.
13. (New) A method according to claim 1, wherein said hydrophilic compound is ATP, NAD, NADP, NADH, NADPH, an enzyme, a free fatty acid, a preservative, a biocide or a salt.

14. (New) A method according to claim 1, wherein said extractant is lecithin, phosphatidyl inositol, sodium dodecyl sulphate (SDS), deoxycholic acid, or potassium sorbate.
15. (New) A method according to claim 1, wherein said aqueous capture solution further contains sodium hypochlorite, sodium chloride, phosphate buffer, or sodium hydroxide.
16. (New) A method according to claim 1, wherein said dye is methylene-blue, Patent Blue V or Fluorescein.